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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,923	07/17/2003	Gregg Baeckler	015114-066500US	2777

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EXAMINER

PARIHAR, SUCHIN

ART UNIT	PAPER NUMBER
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2825

DATE MAILED: 07/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/622,923

Applicant(s)

BAECKLER ET AL.

Examiner

Suchin Parihar

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– The MAILING DATE of this communication appears on the cover sheet with the correspondence address –

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 05 May 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 July 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                        | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

This office action is in response to application 10/622,923 filed 7/17/2003, amendment filed on 5/5/2006. Claims 7, 8, 13, 15, 20 and 22 are amended. Claims 1-22 are pending in this application.

Applicant's arguments, filed 5/5/06 have been fully considered and are persuasive. However, upon further consideration, a new ground(s) of rejection is made.

#### ***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. **Claims 14-22 are rejected under 35 U.S.C. 112, first paragraph**, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. With respect to claim 14, claim recites "code for selecting", code for combining" etc. However, specification fails to enable such language, or any other language (i.e. instructions, computerized steps) which can be considered as enabling said language i.e. "code".

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. **Claims 14-22 are rejected under 35 U.S.C. 112, second paragraph**, as failing to set forth the subject matter which applicant(s) regard as their invention. Claim 14

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recites a computer system comprising code. However, specification, at paragraph [0082] describes: "System 500 includes a processing unit 502, a memory unit 504 and an I/O unit 506 interconnected together to one or more buses". Claim 14 fails to describe a computer system which recites these components. Applicants' need to recite that the system comprises these additional features (i.e. processing unit, memory unit and I/O unit). In addition, Applicants' need to recite that the program code is on a medium, which when executed by the system performs the method steps.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. **Claims 1, 9, 10, 12, 14 and 21 are rejected under 35 U.S.C. 102(e)** as being anticipated by Wallace (US PG Pub 2006/0117280).

7. With respect to claims 1 and 14, Wallace teaches a method and computer system (see Figure 11) that combines look-up tables (see paragraph [0135]) in a design for programmable integrated circuit (see paragraph [0135]) comprising: selecting first and second LUTs from the design (i.e. identifying the inputs of first and second XOR gates, paragraph [0025]); determining whether both of the LUTs implement a same function (i.e. implement the same logic function, paragraph [0006]); and if the first and

second LUTs implement the same function, combining masks of the LUTs into a shared LUT mask in the design (i.e. if two functions are the same, then merge them, paragraph [0092]).

8. With respect to claim 9, Wallace teaches all the elements of claim 1, from which the claim depends. Wallace teaches: wherein determining if the LUTs both perform the same function further comprises: determining if an output value of the first LUT equals an output value of the second LUT for each possible input value that is applied to the input terminals of both of the LUTs (i.e. two gates [LUTs] are said to be equivalent if the outputs do not change if any of the inputs are interchanged, paragraph [0024]).

9. With respect to claim 10, Wallace teaches all the elements of claim 1, from which the claim depends. Wallace teaches: selecting third and fourth LUTs from the design (i.e. identifying the inputs of first and second XOR gates, paragraph [0025]); determining whether both of the LUTs implement a same function (i.e. implement the same logic function, paragraph [0006]); and if the third and fourth LUTs implement the same function, combining masks of the LUTs into a shared LUT mask in the design (i.e. if two functions are the same, then merge them, paragraph [0092]).

10. With respect to claims 12 and 21, Wallace teaches all the elements of claims 1 and 14, from which the claims depend respectively. Wallace teaches: breaking apart the mask of the LUTs (i.e. disjoint-support decomposition into simpler functions, paragraph [0047]) if the mask lies in a critical path in the design (minimize logic levels from the critical path, paragraph [0039]) and placing the first and second LUTs into different logic elements (i.e. multi-gate, paragraph [0039]) within the design.

***Claim Rejections - 35 USC § 103***

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

12. **Claims 2-6, 11 and 15-19 are rejected under 35 U.S.C. 103(a)** as being unpatentable over Wallace (US PG Pub 2006/0117280) in view of Andreev et al. (6,848,094). With respect to claims 2-6, 11, and 15-19, Wallace teaches all the elements of claims 1 and 14, from which the claims depend respectively. Wallace fails to specifically teach a method/system wherein input signals are rearranged iteratively in order to determine whether two LUTs implement the same function. However, Andreev teaches a method of determining whether two LUTs implement the same function (Col 1, lines 5-12) wherein the order of input signals the LUTs are rearranged in order to determine whether both LUTs implement the same function (Col 1, lines 20-34). It would have been obvious to one of ordinary skill in the art to incorporate Andreev into the method of Wallace because Andreev suggests that the re-ordering of inputs and corresponding outputs is helpful in removing redundant circuits, i.e. determining whether two LUTs implement the same function (Col 1, lines 20-35).

13. With respect to claim 2, Wallace teaches all the elements of claim 1, from which the claim depends, wherein. Andreev teaches a method of determining whether two LUTs implement the same function (Col 1, lines 5-12) wherein common input signals of LUTs are identified, and the order of input signals of one of the LUTs are rearranged so

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that the common input signals are applied to a corresponding input terminal in both of the LUTs, and this method determines whether both LUTs implement the same function based on the first rearranged order of input signals (Col 1, lines 20-34).

14. With respect to claim 3, Wallace in view of Andreev teaches all the elements of claim 2, from which the claim depends, wherein. Andreev teaches a method of determining whether two LUTs implement the same function (Col 1, lines 5-12) wherein the order of at least two uncommon input signals of one of the LUTs are rearranged with respect to the input terminals of that LUT, and this method determines whether both LUTs implement the same function (Col 1, lines 20-34).

15. With respect to claim 4, Wallace teaches all the elements of claim 1, from which the claim depends, wherein. Andreev teaches a method of determining whether two LUTs implement the same function (Col 1, lines 5-12) wherein the order of at least two input signals of one of the LUTs are rearranged with respect to the input terminals of that LUT, and this method determines whether both LUTs implement the same function (Col 1, lines 20-34).

16. With respect to claim 5, Wallace in view of Andreev teaches all the elements of claim 4, from which the claim depends. Wallace teaches: if the LUTs implement the same function with the first rearranged order (i.e. input pin swap [rearrangement] equivalence, paragraph [0036]), combining the masks of the LUTs into a shared LUT mask in the design (i.e. merge the two functions into one function, paragraph [0092]). Andreev teaches a method of determining whether two LUTs implement the same function (Col 1, lines 5-12) wherein the order of at least two input signals of one of the

LUT's are rearranged with respect to the input terminals of that LUT, and this method determines whether both LUTs implement the same function (Col 1, lines 20-34).

17. With respect to claim 6, Wallace in view of Andreev teaches all the elements of claim 5, from which the claim depends. Andreev teaches a method for determining whether two LUTs implement the same function (Col 1, lines 5-12). Betz teaches a method wherein two LUTs are combined into a shared mask (Col 1, lines 11-13, i.e. combining functional blocks into fewer programmable circuit elements) if it is determined that the LUTs are combinable (i.e. implement same function, as suggested by Andreev: Col 1, lines 7-10). Andreev also teaches rearranging the order of at least two input signals of the first LUT with respect to the input terminals of that LUT because it has not yet been determined that the LUT's implement the same function.

18. With respect to claim 11, Wallace teaches all the elements of claim 10, from which the claim depends, wherein. Andreev teaches a method of determining whether two LUTs implement the same function (Col 1, lines 5-12) wherein the order of at least two input signals of one of the LUTs are rearranged with respect to the input terminals of that LUT if previous rearrangements of input signals to not determine same function (Col 1, lines 20-34).

19. With respect to claim 15, Wallace teaches all the elements of claim 14, from which the claim depends. Andreev teaches a computer system wherein at least some integer N of common input signals for the first and second LUT are determined, and the order of input signals of one of the LUTs are rearranged so that the common input signals are applied to a corresponding input terminal in both of the LUTs, in the same



order, to provide a first rearranged order, and this method determines whether both LUTs implement the same function (Col 1, lines 20-34).

20. With respect to claim 16, Wallace in view of Andreev teaches all the elements of claim 15, from which the claim depends, wherein. Andreev teaches a computer system wherein the code is provided for rearranging an order of at least two uncommon input signals with respect to input terminals of one of the LUTs to provide a second rearranged order, if the LUTs do not implement the same function (Col 1, lines 20-34). Kelsey teaches a computer system (Col 3, lines 10-12, i.e. Computer Aided Engineering Tool) which includes code to compare output values of the LUTs to determine if the LUTs generate the identical function based on the second rearranged order of the input signals (Col 2, lines 28-33).

21. With respect to claim 17, Wallace teaches all the elements of claim 14, from which the claim depends, wherein. Andreev teaches a computer system (Col 7, lines 57-60, i.e. computer program of the present invention) wherein code is provided to determine whether two LUTs implement the same function (Col 1, lines 5-12) which involves the rearrangement of the order of at least two input signals of one of the LUTs with respect to the input terminals of that LUT (Col 1, lines 20-34).

22. With respect to claim 18, Wallace in view of Andreev teaches all the elements of claim 17, from which the claim depends, wherein. Andreev teaches a computer system (Col 7, lines 57-60, i.e. computer program of the present invention) wherein code is provided for combining masks of the LUTs (Col 1, lines 10-12, i.e. removing redundant circuits) in the design if the LUTs implement the identical function with the first

rearranged order (Col 1, lines 23-25, i.e. re-ordering inputs), and code for rearranging the order of input signals of the LUTs with respect to the input terminals of that LUT to provide a second rearranged order of the input signals, if the LUTs do not implement the identical function with the first rearranged order (Col 1, lines 20-34)).

23. With respect to claim 19, Wallace in view of Andreev teaches all the elements of claim 18, from which the claim depends, wherein. Andreev teaches a computer system (Col 7, lines 57-60, i.e. computer program of the present invention) wherein code is provided for combining masks of the LUTs (Col 1, lines 10-12, i.e. removing redundant circuits) in the design if the LUTs implement the identical function with the second rearranged order (Col 1, lines 23-25, i.e. re-ordering inputs), and code for rearranging the order of input signals of the LUTs with respect to the input terminals of that LUT to provide a third rearranged order of the input signals, if the LUTs do not implement the identical function with the second rearranged order (Col 1, lines 20-34)).

24. **Claim 22 is rejected under 35 U.S.C. 103(a)** as being unpatentable over Wallace (US PG Pub 2006/0117280) in view of Andreev et al. (6,848,094) and in further view of Harrison et al. (5,636,368).

25. With respect to claim 22, Wallace in view of Andreev teaches all the elements of claim 18, from which the claim depends. Wallace in view of Andreev does not teach: code for determining if the LUTs have at least N common input signals, after the output values of the LUTs have been compared; code for determining if the LUTs have no more than M unique input signals, after the output values of the LUTs have been compared, wherein the masks of the first and second LUTs are not combined if the

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LUTs have less than N common input signals or more than M unique input signals, wherein N and M are integers. However, Harrison teaches: code for determining if the LUTs have at least N common input signals (i.e. at Fig 8 step 820, it is determined whether the LUT-implemented function block [see Col 16, lines 23-25 for “look-up table”] contains at least 21 inputs), after the output values of the LUTs have been compared; code for determining if the LUTs have no more than M unique input signals (i.e. at Fig 8 step 830, it is determined whether the LUT-implemented function block [see Col 16, lines 23-25 for “look-up table”] contains more than 21 inputs), after the output values of the LUTs have been compared, wherein the masks of the first and second LUTs are not combined if the LUTs have less than N common input signals or more than M unique input signals (i.e. dividing LUT-implemented function block equation into two or more sub-expressions, see Fig 8, step 840), wherein N and M are integers.

It would have been obvious to one of ordinary skill in the art to incorporate Harrison into the invention of Wallace and Andreev for at least the following reasons: Harrison improves the invention of Wallace by providing an alternative way to determine whether representations of digital circuits (i.e. logic equations, see Harrison, Col 11, lines 42-45) can be converted into layouts for circuit implementation (i.e. determining whether a logic equation is implementable in a function block [FFB], see Harrison, Col 11, lines 42-45). Note that in paragraph [0003] of Wallace, Wallace recites: “this invention relates to techniques for converting representations of digital circuits, such as

logic diagrams [i.e. diagrams which can be expressed by logic equations] or schematics, into layouts for circuit implementation.”

26. **Claims 7, 8, 13 and 20 are rejected under 35 U.S.C. 103(a)** as being unpatentable over Wallace (US PG Pub 2006/0117280) in view of Harrison et al. (5,636,368).

27. With respect to claim 7, Wallace teaches all the elements of claim 1, from which the claim depends. Wallace does not teach: before determining whether the LUTs implement the same function, determining if the LUTs have at least N common input signals; and if the LUTs do not have at least N common input signals, preventing the masks of the LUTs from being combined, wherein N is an integer. However, Harrison teaches: before determining whether the LUTs implement the same function, determining if the LUTs have at least N common input signals (i.e. at Fig 8 step 820, it is determined whether the LUT-implemented function block [see Col 16, lines 23-25 for “look-up table”] contains at least 21 inputs); and if the LUTs do not have at least N common input signals (direction of ‘N’ below step 820 of Fig 8, i.e. LUT-implemented function block does not have at least 21 inputs), preventing the masks of the LUTs from being combined (i.e. dividing LUT-implemented function block equation into two or more sub-expressions, see Fig 8, step 840), wherein N is an integer. It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Harrison into the invention of Wallace for at least the following reasons: Harrison improves the invention of Wallace by providing an alternative way to determine whether representations of digital circuits (i.e. logic equations, see Harrison, Col 11, lines 42-45)

can be converted into layouts for circuit implementation (i.e. determining whether a logic equation is implementable in a function block [FFB], see Harrison, Col 11, lines 42-45).

Note that in paragraph [0003] of Wallace, Wallace recites: "this invention relates to techniques for converting representations of digital circuits, such as logic diagrams [i.e. diagrams which can be expressed by logic equations] or schematics, into layouts for circuit implementation."

28. With respect to claim 8, Wallace in view of Harrison teaches all the elements of claim 7, from which the claim depends. Wallace does not teach: before determining whether the LUTs implement the same function, determining if the LUTs have more than M unique input signals; and if the LUTs have more than M unique input signals, preventing the masks of the LUTs from being combined, wherein M is an integer.

However, Harrison teaches: before determining whether the LUTs implement the same function, determining if the LUTs have more than M unique input signals (i.e. at Fig 8 step 830, it is determined whether the LUT-implemented function block [see Col 16, lines 23-25 for "look-up table"] contains more than 21 inputs); and if the LUTs have more than M unique input signals (direction of 'N' below step 830 of Fig 8, i.e. LUT-implemented function block has more than 21 inputs), preventing the masks of the LUTs from being combined (i.e. dividing LUT-implemented function block equation into two or more sub-expressions, see Fig 8, step 840), wherein M is an integer.

29. With respect to claim 13, Wallace teaches all the elements of claim 1, from which the claim depends. Wallace does not teach: after determining whether both of the LUTs implement the same function, determining if the LUTs have at least N common input

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signals; and determining whether the LUTs have no more than M unique input signals, wherein the LUT masks are combined into the shared LUT mask only if the LUTs have at least N common input signals and no more than M unique input signals, wherein N and M are integers. However, Harrison teaches: after determining whether both of the LUTs implement the same function, determining if the LUTs have at least N common input signals (i.e. at Fig 8 step 820, it is determined whether the LUT-implemented function block [see Col 16, lines 23-25 for "look-up table"] contains at least 21 inputs); and determining whether the LUTs have no more than M unique input signals (i.e. at Fig 8 step 830, it is determined whether the LUT-implemented function block [see Col 16, lines 23-25 for "look-up table"] contains more than 21 inputs), wherein the LUT masks are combined into the shared LUT mask only if the LUTs have at least N common input signals and no more than M unique input signals (step 840 of Fig 8 is bypassed, i.e. equation is not split into two sub-expressions, i.e. one shared LUT-implemented function block), wherein N and M are integers. It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Harrison into the invention of Wallace for at least the following reasons: Harrison improves the invention of Wallace by providing an alternative way to determine whether representations of digital circuits (i.e. logic equations, see Harrison, Col 11, lines 42-45) can be converted into layouts for circuit implementation (i.e. determining whether a logic equation is implementable in a function block [FFB], see Harrison, Col 11, lines 42-45). Note that in paragraph [0003] of Wallace, Wallace recites: "this invention relates to techniques for converting representations of digital circuits, such as logic diagrams [i.e. diagrams

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which can be expressed by logic equations] or schematics, into layouts for circuit implementation.”

30. With respect to claim 20, Wallace teaches all the elements of claim 14, from which the claim depends. Wallace does not teach: code for determining if the LUTs have at least N common input signals; and code for determining if the LUTs have no more than M unique input signals, wherein implementation of the code for comparing the output values of the first and second LUTs is prevented if the first and second LUTs have less than N common input signals or more than M unique input signals, wherein N and M are integers. However, Harrison teaches: code for determining if the LUTs have at least N common input signals (i.e. at Fig 8 step 820, it is determined whether the LUT-implemented function block [see Col 16, lines 23-25 for “look-up table”] contains at least 21 inputs); and code for determining if the LUTs have no more than M unique input signals (i.e. at Fig 8 step 830, it is determined whether the LUT-implemented function block [see Col 16, lines 23-25 for “look-up table”] contains more than 21 inputs), wherein implementation of the code for comparing the output values of the first and second LUTs is prevented if the first and second LUTs have less than N common input signals or more than M unique input signals, wherein N and M are integers (i.e. dividing LUT-implemented function block equation into two or more sub-expressions, see Fig 8, step 840). It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Harrison into the invention of Wallace for at least the following reasons: Harrison improves the invention of Wallace by providing an alternative way to determine whether representations of digital circuits (i.e. logic

equations, see Harrison, Col 11, lines 42-45) can be converted into layouts for circuit implementation (i.e. determining whether a logic equation is implementable in a function block [FFB], see Harrison, Col 11, lines 42-45). Note that in paragraph [0003] of Wallace, Wallace recites: "this invention relates to techniques for converting representations of digital circuits, such as logic diagrams [i.e. diagrams which can be expressed by logic equations] or schematics, into layouts for circuit implementation."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suchin Parihar whose telephone number is 571-272-6210. The examiner can normally be reached on Mon-Fri, 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on 571-272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

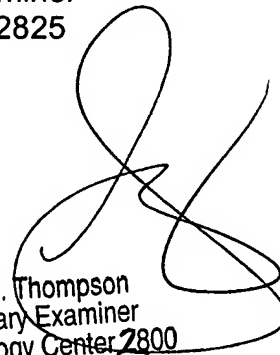


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Suchin Parihar  
Examiner  
AU 2825



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